

IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: ALEXANDER JULIAN EGLIT AND JIN ZONG
SERIAL NO: 09/076,670
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TITLE: A METHOD AND APPARATUS FOR UPSCALING VIDEO
IMAGES IN A GRAPHICS CONTROLLER CHIP
EXAMINER: T. JOHNSON
ART UNIT: 2723
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CERTIFICATE OF MAILING

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Dated: _____

By: _____
Dana S. Rao, Reg. No.: 43,875

BOX NON-FEE AMENDMENT
ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON D.C. 20231

Proposed Amendment

The following amendment and remarks are in response to the official action mailed
November 25, 1998.

245/519

1. A graphics controller circuit for upscaling a source video image to generate an upscaled video image, the source video image comprising a plurality of scan lines with each scan line comprising a set of pixel data, the graphics controller circuit comprising:

an encoder circuit integrated into the graphics controller circuit for receiving a set of pixel data for a first scan line of the source video image and generating a compressed data set corresponding to the set of pixel data for the first scan line;

a local memory integrated into the graphics controller circuit coupled to receive and store the compressed data set;

a decoder circuit integrated into the graphics controller circuit for retrieving the compressed data set in the local memory and for decompressing the compressed data set to generate a decompressed pixel data set; and

an interpolator integrated into the graphics controller circuit for receiving the decompressed pixel data set and a set of pixel data for a second scan line of the source video, the interpolator interpolating the decompressed pixel data set and the set of pixel data for the second scan line to generate a set of additional pixel data comprised in the upscaled video image.

Reconsideration and favorable action are solicited.

Respectfully submitted,

ALEXANDER JULIAN EGLIT AND
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